Research Article
Expert Consensus on the Treatment of Hypertension with Chinese Patent Medicines

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Objectives. This study was aimed to determine the therapeutic principle and identify Chinese Patent Medicine (CPM) with corresponding indications for hypertension treatment. Methods. Three rounds of Delphi survey were mailed among 40 cardiovascular integrative medicine specialists. Items with agreement of more than 80% respondents were included in the consensus. Results. According to majority of the panelists, CPM is suitable for most hypertensive patients and should be used according to traditional Chinese medicine pattern classification. CPM could be used alone for grade 1 hypertension and could be used in combination with Western biomedicine (WM) for both grade 2 and grade 3 hypertension. It is recommended that less than two CPMs are used simultaneously. For the treatment of grade 2 and 3 hypertension, CPM and WM should be taken separately. Recommended CPMs included Tianma Gouteng granule, Qiju Dihuang capsule, Jinkui Shenqi pill, Yinxingye tablet, Niuhuang Jiangyapill and Banxia Tianmapill. The indications of 4 CPMs were specified with symptoms related to TCM pattern classification by the experts. Conclusions. An expert consensus on CMP application was formed for the treatment of hypertension in the form of integrative medicine. A flow of IM hypertension management was proposed based on the results of the survey.

1. Introduction
Hypertension is an alarming global health issue with increasing longevity and prevalent contributing factors, such as obesity, physical inactivity, and an unhealthy diet [1–3]. It is of highest morbidity rate of chronic diseases in China [4]. The current prevalence in many developing countries is reaching that of developed countries [5, 6].

TCM has been widely used in treating hypertension in China [7], and recently more Chinese patent medicines (CPMs) were developed for convenient application and better quality control [8–13]. Currently, there are 86 CPMs available for the treatment of hypertension as listed in the Chinese pharmacopoeia (2010 edition) [14]. These CPMs were used not only by TCM doctors but also by WM doctors. Since most of the WM doctors have inadequate training in TCM, the misuse of CPMs is a practical concern.

Different CPMs should be used to treat diseases with different TCM patterns according to TCM pattern differentiation theory. In China, there are no mandatory guidelines for the application of CPMs as a treatment for hypertension. We aimed to develop a guideline for best practice of using CPM to treat hypertension through a Delphi survey among a cohort of cardiovascular experts in IM.

Delphi surveys are commonly used to reach agreement of clinical protocols [15]. A Delphi survey involves a group of experts with equal opportunity to contribute to decision making in an anonymous, iterative, regulated, and statistically assisted manner [16]. This process prevents negative effects of group interactions including dominance of vocal group members and imposes few geographical constraints [17]. To ensure easy understanding and application among doctors without TCM training, we presented the indications of CPM with common symptoms.
2. Methods

2.1. Participating Experts. A clinical expert consensus management group was formed. 40 IM cardiovascular experts were selected with three criteria: (1) with more than ten years clinical experience in the treatment of hypertension with CPMs; (2) have published at least 4 peer reviewed papers related to the treatment of hypertension with IM; (3) recommended by the Cardiovascular Disease Division of China Association of Chinese Medicine.

2.2. Questionnaire. For the first round of survey, a questionnaire focused on the general therapeutic principle was deliberated among and set by the management group. A list of top 20 commonly used CPMs was generated from a systematic literature search in PubMed and Chinese CNKI. All these included 33 items covering the following areas: the general principle of using CPMs, the commonly used CPMs and the corresponding indications.

Experts were invited to add any comments that they perceived to be necessary and the CPMs that they used frequently in their clinical practice.

2.3. Delphi Process. Three rounds of consultation were carried out in this study. The questionnaire was mailed to the panelists. A month after the deadline of response, a reminder was sent to experts who did not respond.

In the first round, the experts were invited to finish the questionnaire and add the general principles of CPMs application and CPMs they commonly used in treatment of hypertension. The results were collected and submitted to the management group.

After analysis and discussion, a revised questionnaire for the second round consultation was generated and subsequently disseminated to the experts who responded in the first round. Items were accepted as consensus directly when 80% of respondents reached agreement. Items receiving less than 20% support were removed. Items receiving between 20% and 80% were recirculated to the next round consultation. A list of top 20 commonly used CPMs together with the CPMs suggested by the experts were included. The third round of questionnaire was composed of the same questions which did not achieve consensus in previous consultation. All respondents had access of second round scores of the whole group to provide information for consensus items from the second round and achieve the final consensus. As it is well understood that the application of CPMs varies among different CM doctors and different pattern of disease, we included CPMs with consensus over 70% so as to provide more options on treatment. Corresponding confidence intervals were shown as reference.

3. Results

3.1. Participants. The questionnaire was mailed to the 40 experts satisfying the inclusion criteria. All of them completed the first round of consultation, 37 experts completed the second round, and 33 experts finished the third round.

The panelists aged from 37 to 70 and were all ranked of professor or associate professor. Table 1 shows the demographics of the panelists.

3.2. Items Endorsed in the Consensus. After three rounds of consultation, the items with consensus included 12 general therapeutic principles of CPMs application, six CPMs with indications and precautions. Figure 1 shows the management flow of hypertension with CPMs based on the results in the survey.

In the first round of consultation, 21 items on general therapeutic principle and 20 CPMs for the treatment of hypertension were collected from literature review and constituted the questionnaire for the first round of consultation. The questionnaires were mailed to the panelists. Four items which reached consensus from more than 80% experts were accepted directly (Table 2), including "CPMs and WMs should be used according to hypertension grades in WM diagnosis," "CPMs could reduce the side effect of western medicines in hypertension treatment," "CPMs and WMs could be used in combination with other types of TCM non-drug therapy," and "Physical activity is suitable for hypertension treatment".

In the second round of consultation, 7 items on general therapeutic principle reached consensus from more than 80% experts (Table 2), including "CPMs could be used alone in grade 1 hypertension treatment," "CPMs should be used according to TCM pattern classification," "Less than two kinds of CPMs were recommended to be used simultaneously," "Doctors should monitor the symptom changes to avoid side effect of CPMs," "CPMs should be used with WMs together in grade 2 and grade 3 hypertension treatment," "CPMs and WMs should be taken separately when used together" (Table 2).

In the third round of consultation, 1 more item of the general therapeutic principle for CPM application was selected by more than 80% experts, and 6 kinds of CPMs were selected by 70% or more experts (Table 2). Selected CPMs included Tianma Gouteng (TMGT) granule (90.00%), Qiju Dihuang (QJDH) capsule (87.50%), Jinkui Shenqi (JKSQ)
Grade 1
Chinese medicine alone (82.5%)

Grade 2 or 3
Chinese medicine and biomedicine (87.5% for grade 2, 100% for grade 3*)

(1) Administrate CPMs according to TCM pattern differentiation (87.5%)
(2) Less than 2 CPMs should be used simultaneously (100%)
(3) CPMs should be taken after meal to avoid their side effect (88.23%)
(4) Doctors should monitor the change of symptoms to avoid side effect of CPMs (97.5%)
(5) CPMs and WMs could be used with nondrug therapy simultaneously (95%)
(6) Physical activity is suitable for hypertension treatment (82.5%)

Indications:
TMGT granule: dizziness (82.35%) and distending headache (73.53%)
QJDH capsule: dizziness (97.06%), dazzling (94.12%), tinnitus (94.12%), soreness and weakness of waist and knee (88.23%), insomnia (76.47%), and vexing heat in the chest, palms, and soles (76.47%)
BXTM pill: heavy head (91.18%) and chest and epigastria fullness and distress (88.23%)
JKSQ pill: nocturia (88.23%), fatigue (79.41%), waist soreness (79.41%), dizziness (73.53%) and knee weakness (73.53%)

* P < 0.05.

Figure 1: Proposed flow of hypertension management in the integrative medicine perspective.

4. Discussion

We aimed to reach an expert consensus on CPMs treatment for hypertension for WM doctors who intend to use CPMs in hypertension management. We used the Delphi method which enabled us to utilize both the research and clinical experience of the experts who participated with no geographical limitations. All panelists of the consultation were IM cardiologist. They were all recommended by the Cardiovascular Disease Division of China Association of Chinese Medicine. Compared with the TCM doctors who use herbal decoctions more frequently than CPMs, IM doctors treat hypertension with both CPMs and WMs simultaneously more often. We selected IM doctors as they had both WM and CM education background as well as clinical experience on the use of both CPMs and WMs. We believe that they are more capable to explain with TCM terms and have richer experience on clinical use of related CPMs and WMs.

The consensus included twelve general therapeutic principles of CPMs and six CPMs with corresponding indications. Majority agreed that CPMs could be used for most patients with hypertension and the application varies among different stages of hypertension. CPM could be used alone in grade 1 hypertension and should be used along with WM for grade 2 and grade 3 hypertension. The results are coherent with the clinical practice in China currently. Previous studies showed that CPMs have similar effect in treating grade 1 hypertension as WMs [18]. Furthermore, the clinical effectiveness is enhanced with the concurrent use of WMs in grade 2 and grade 3 hypertension management [19, 20]. Therefore, CPMs should be used with WMs together when treating grade 2 and grade 3 hypertensive patients.

CPMs are developed based on TCM theory as a result, they should be used according to TCM pattern classification in the treatment of hypertension. Hypertensive patients usually presents with headache and dizziness, and sometimes tinnitus, soreness and weakness of waist and knee, and fear of cold and cold limbs. All these could be classified into different patterns. Studies have shown the correlation between hypertension and different TCM patterns [21, 22] with typical symptoms. In this study, we listed a wide range of symptoms for pattern classification in the consultation in order to yield symptom-based indications of recommended CPMs.
Hypertension is associated with multiple cardiovascular risk factors, and the concurrent use of multiple CPMs for hypertension treatment is a common practice. According to most of the IM or TCM experts, simultaneous application of CPMs may have an additive effect. However, in recent years, there have been an increasing number of reports on the side effect of concurrent use of CPMs [23]. To avoid the side effects, experts recommended that less than two CPMs should be used simultaneously. In addition, CPMs should be taken after meal, and the practitioners should monitor the change of symptoms to avoid the side effects.

The concurrent use of TCM and WM has been popular in China which leads to a new medical model known as integrated traditional and western medicine or integrative medicine. With regard to hypertension treatment, this approach is being used clinically, involving CPMs and different categories of WM selected by experts. CPMs and different categories of WM such as diuretics, Beta-blockers, CCBs, and ACEIs [24]. It is shown in many studies that combined treatments are more effective in disease control and symptoms modification when compared with single treatment [25].

In this survey, 87.5% of experts agreed that CPMs and WMs should be administered separately in the treatment of grade 2 and grade 3 hypertension. It is sensible to take CPMs and WMs apart in clinical practice, as CPMs are complex and there may be interaction between the medicines. Some studies showed that CPMs and Chinese herbal medicines (CHM) have the effect of reducing side effects of WMs in hypertension treatment [26], and 85% of the panelists agreed with that.

A range of lifestyle modifications have been shown in clinical trials with the effect of lowering blood pressure and reducing the incidence of hypertension, similar to majority (82.5%) of the panelists’ viewpoint. Physical activity is one of the most important among them [27, 28].

In this study, more than 70% of the experts selected six CPMs for hypertension treatment including TMGT, QJDH, JKSQ, YXY, NHJY, and BXTM. TMGT, QJDH, YXY, NHJY and BXTM were recorded in the Chinese pharmacopoeia (2010 edition). TMGT granule, with highest consensus and the only CPM selected by more than 90% of panelists, is a recommended treatment in the clinical practice guideline for hypertension in TCM [9]. TMGT granule is composed of the herbs Gastrodiae Rhizoma (Tian Ma), Uncariae Ramulus Cum Uncis (Gou Teng), Haliotidis Concha (Shui Niu Jiao), Bovis Calculus (Ren Gong Niu Huang), Borneolum (Zhen Zhu Mu), Bubali Cornu (Shui Niu Jiao), Bovis Calculus (Ren Gong Niu Huang), Borneolum

### Table 2: General principles for hypertension treatment achieving consensus.

<table>
<thead>
<tr>
<th>No.</th>
<th>Consensus</th>
<th>Round for consensus</th>
<th>Percentage of consensus (95% confidence interval)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CPMs and WMs could be used with nondrug therapy simultaneously</td>
<td>1</td>
<td>95.00% (82.6% to 100%)*</td>
</tr>
<tr>
<td>2</td>
<td>CPMs could reduce the side effect of WMs in hypertension treatment</td>
<td>1</td>
<td>85.00% (72.6% to 97.4%)</td>
</tr>
<tr>
<td>3</td>
<td>CPMs and WMs should be used according to WM diagnostic system</td>
<td>1</td>
<td>82.50 (70.1% to 94.9%)</td>
</tr>
<tr>
<td>4</td>
<td>Physical activity is suitable for hypertension treatment</td>
<td>1</td>
<td>82.50 (70.1% to 94.9%)</td>
</tr>
<tr>
<td>5</td>
<td>Less than two CPMs should be used simultaneously</td>
<td>2</td>
<td>100.00 (87.1% to 100%)*</td>
</tr>
<tr>
<td>6</td>
<td>CPMs should be used with WMs together as grade 3 hypertension treatment</td>
<td>2</td>
<td>100.00 (87.1% to 100%)*</td>
</tr>
<tr>
<td>7</td>
<td>Doctors should monitor the change of symptoms to avoid side effect of CPMs</td>
<td>2</td>
<td>97.50 (84.6% to 100%)*</td>
</tr>
<tr>
<td>8</td>
<td>CPMs and WMs should be administered separately when applied together</td>
<td>2</td>
<td>90.00 (77.1% to 100%)</td>
</tr>
<tr>
<td>9</td>
<td>CPMs should be used with WMs together as grade 2 hypertension treatment</td>
<td>2</td>
<td>87.50 (74.6% to 100%)</td>
</tr>
<tr>
<td>10</td>
<td>CPMs should be used according to TCM pattern differentiation theory</td>
<td>2</td>
<td>87.50 (74.6% to 100%)</td>
</tr>
<tr>
<td>11</td>
<td>CPMs could be used alone as grade 1 hypertension treatment</td>
<td>2</td>
<td>82.50 (69.6% to 95.4%)</td>
</tr>
<tr>
<td>12</td>
<td>CPMs should be taken after meal to avoid their side effect</td>
<td>3</td>
<td>88.23 (74.6% to 100%)</td>
</tr>
</tbody>
</table>

* P < 0.05.
Table 3: General information on the CPMs achieving consensus.

<table>
<thead>
<tr>
<th>Name</th>
<th>Source of information</th>
<th>Composition</th>
<th>Specification</th>
<th>Recommended dosage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tianma Gouteng (TMGT) granule</td>
<td>Chinese pharmacopoeia (2010 edition)</td>
<td>Gastrodii Rhizoma (Tian Ma), Uncariae Ramulus Cum Uncis (Gou Teng), Haliotidis Concha (Shi Jue Ming), Gardeniae Fructus (Zhi Zi), Astragali Radix (Huang Qi), Achyranthis Bidentatae Radix (Niu Xi), Eucommiae Cortex (Yan Du Zhong), Leonuri Herba (Yi Mu Cao), Taxilli Herba (Sang Ji Sheng), Polygoni Multiflori Caulis (Shou Wu Teng), and Poria (Fu Ling)</td>
<td>10 g/bag</td>
<td>10 g/t; t.i.d.</td>
</tr>
<tr>
<td>Qiju Dihuang (QJDH) capsule</td>
<td>Chinese pharmacopoeia (2010 edition)</td>
<td>Lycii Fructus (Gou Qi Zi), Mume Flos (Ju Hua), Rehmanniae Radix Praeparata (Shu Di Huang), Corni Fructus (Shan Zhu Yu), Moutan Cortex (Mu Dan Pi), Dioscoreae Rhizoma (Shan Yao), Poria (Fu Ling), and Aliamria Rhizoma (Yan Ze Xie).</td>
<td>0.3 g/granule</td>
<td>5-6 granules/t; t.i.d.</td>
</tr>
<tr>
<td>Niuhuang Jiangya (NHJY) pill</td>
<td>Chinese pharmacopoeia (2010 edition)</td>
<td>Saigae Tataricae Cornu (Ling Yang Jiao), Margaritifera Concha (Zhen Zhu Mu), Bubali Cornu (Shui Niu Jiao), Bovis Calculus (Ren Gong Niu Huang), Borneolum Syntheticum (Bing Pian), Paeoniae Radix Alba (Bai Shao), Salviae Miltiorrhizae Radix Et Rhizoma (Dang Shen), Astragali Radix (Huang Qi), Cassiae Semen (Jue Ming Zi), Chuanxiong Rhizoma (Chuan Xiong), Scutellariae Radix (Huang Qin Ti Qu Wu), Nardostachyos Radix Et Rhizoma (Gan Song), Menthae Haplocalycis Herba (Bo He), and Curcumae Radix (Yu Jin)</td>
<td>20 pills/1.3 g</td>
<td>1.3 g–2.6 g/t; q.d.</td>
</tr>
<tr>
<td>Banxia Tianma (BXTM) pill</td>
<td>Chinese pharmacopoeia (2010 edition)</td>
<td>Pinelliae Rhizoma Praeparatum (Fa Ban Xia), Gastrodiae Rhizoma (Tian Ma), Astragali Radix Praeparata Cum Melle (Zhi Huang Qi), Ginseng Radix Et Rhizoma (Ren Shen), Atractylodis Rhizoma (Cang Zhi), Atractylodis Macrocephalae Rhizoma (Chao Bai Zhu), Poria (Fu Ling), Citri Reticulatae Pericarpium (Chen Pi), Aliamria Rhizoma (Ze Xie), Massa Medicata Fermentata (Liu Shen Qu), Hordei Fructus Germinatus (Chao Mai Ya), and Hordei Fructus Germinatus (Chao Mai Ya), and Phellodendri Chinensis Cortex (Huang Bai)</td>
<td>100 pills/6 g</td>
<td>6 g/t; b.i.d./t.i.d.</td>
</tr>
<tr>
<td>Yinxingye (YXY) tablet</td>
<td>Chinese pharmacopoeia (2010 edition)</td>
<td>Ginkgo Folium</td>
<td>12 mg/tablet; 24 mg/tablet; 24 mg/t</td>
<td>t.i.d.</td>
</tr>
<tr>
<td>Jinkui Shenqi (JKSQ) pill</td>
<td>State Drug Approval Document No: Z11020054</td>
<td>Aconiti Lateralis Rddix Praeparata (Fu Zi), Cinnamomi Ramulus (Gui Zhi), Achyranthis Bidentatae Radix (Niu Xi), Rehmanniae Radix (Di Huang), Corni Fructus (Shan Zhu Yu), Dioscoreae Rhizoma, Poria (Fu Ling), Aliamria Rhizoma (Ze Xie), Plantaginis Semen (Che Qian Zi), and Moutan Cortex (Mu Dan Pi)</td>
<td>6 mg/granule</td>
<td>b.i.d.</td>
</tr>
</tbody>
</table>

Syntheticum (Bing Pian), Paeoniae Radix Alba (Bai Shao), Salviae Miltiorrhizae Radix Et Rhizoma (Dang Shen), Astragali Radix (Huang Qi), Cassiae Semen (Jue Ming Zi), Chuanxiong Rhizoma (Chuan Xiong), Scutellariae Radix (Huang Qin Ti Qu Wu), Nardostachyos Radix Et Rhizoma (Gan Song), Menthae Haplocalycis Herba (Bo He), and Curcumae Radix (Yu Jin). The indication of NHJY pill includes light headedness, headache, insomnia, and dysphoria which can be categorized as heat in heart and liver and phlegm heat obstruct [14]. Clinical studies demonstrated that NHJY pill is suitable for grade 1 and grade 2 hypertension treatments [34]. It can relieve headache, irritability, anxiety and depress sympathetic nervous activity [35]. NHJY pill includes many metallic elements such as sodium, calcium, magnesium, potassium, iron, chromium, manganese, nickel, cadmium, copper, and zinc [36]. The side effect of NHJY pill includes minor gastric discomfort which can be relieved after symptomatic treatment [37].

YXY tablet was mainly composed of flavonol glycosides, an extract of Chinese herbal medicine ginkgo leaf. The indications of YXY tablet are cardialgia, stroke, and hemiplegia, which can be categorized in TCM pattern as obstruction of collaterals by blood stasis [14]. Clinical studies showed that YXY tablet has good effect on lowering blood pressure and improving the quality of life for hypertensive patient when used alone or combined with WMs [38, 39]. Pharmacological research showed that it can inhibit hypertension ventricle remodeling by downregulating the serum TGF-β1 [40]. The side effect of YXY tablet includes urticaria, which would disappear after cessation of medication [41].
### Table 4: Clinical indications of the CPMs achieving consensus.

<table>
<thead>
<tr>
<th>CPMs</th>
<th>TCM symptom-based indications</th>
<th>Percentage of consensus (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMGT granule</td>
<td>Dizziness</td>
<td>82.35</td>
</tr>
<tr>
<td></td>
<td>Distending headache</td>
<td>73.53</td>
</tr>
<tr>
<td>QJDH capsule</td>
<td>Soreness and weakness of waist and knee</td>
<td>88.23</td>
</tr>
<tr>
<td></td>
<td>Insomnia</td>
<td>76.47</td>
</tr>
<tr>
<td></td>
<td>Vexing heat in the chest, palms, and soles</td>
<td>76.47</td>
</tr>
<tr>
<td>BXTM pill</td>
<td>Heavy head</td>
<td>91.18</td>
</tr>
<tr>
<td></td>
<td>Chest and epigastric fullness and distress</td>
<td>88.23</td>
</tr>
<tr>
<td>JKSQ pill</td>
<td>Nocturia</td>
<td>88.23</td>
</tr>
<tr>
<td></td>
<td>Fatigue</td>
<td>79.41</td>
</tr>
<tr>
<td></td>
<td>Waist soreness</td>
<td>79.41</td>
</tr>
<tr>
<td></td>
<td>Dizziness</td>
<td>73.53</td>
</tr>
<tr>
<td></td>
<td>Knee weakness</td>
<td>73.53</td>
</tr>
</tbody>
</table>

*P < 0.05.

BXTM pill consists of Pinelliae Rhizoma Praeparatum (Fa Ban Xia), Gastrodiae Rhizoma (Tian Ma), Astragali Radix Praeparata Cum Melle (Zhi Huang Qi), Ginseng Radix Et Rhizoma (Ren Shen), Atractylodis Rhizoma (Cang Zhu), Atractylodis Macrocephalae Rhizoma (Chao Bai Zhu), Poria (Fu Ling), Citri Reticulatae Pericarpium (Chen Pi), Aliamria Rhizoma (Ze Xie), Massa Medicata Fermentata (Liu Shen Qu), Hordei Fructus Germinatus (Chao Mai Ya), and Phellodendri Chinensis Cortex (Huang Bai). Indication includes dizziness, headache, and chest and epigastric fullness and distress which can be categorized as damp abundance due to spleen asthenia and stagnation of endogenous retention of phlegm [14].

JKSQ pill is listed in the national essential medicine list and consists of Aconitii Lateralis Radix Praeparata (Fu Zi), Cinnamomi Ramulus (Gui Zhi), Achyranthis Bidentatae Radix (Niu Xi), Rehmanniae Radix (Di Huang), Corni Fructus (Shan Zhu Yu), Dioscoreae Rhizoma, Poria (Fu Ling), Aliamria Rhizoma (Ze Xie), Plantaginis Semen (Che Qian Zi), and Moutan Cortex (Mu Dan Pi). The indication includes edema, soreness and weakness of waist and knees, dysuria, and extreme chilliness which can be categorized as deficiency of the kidney [14]. Clinical studies showed JKSQ pill has a high effective rate (91.25%) in hypertension treatment [42]. It also demonstrates promising effect on decreasing microalbuminuria when administered with WMs [43]. Side effect of JKSQ pill includes skin eruption, nausea, and abdominal pain [44].

There are several limitations in this study. First, it is difficult to achieve perfect consensus on CPMs for the treatment of hypertension, as there were many different CPMs available with different TCM pattern based indications. Also, they were in lack of evidence from quality trials. To provide maximum information for WM doctors, we accepted items that agreed by more than 70% of panelists in this study.

Secondly, we did not use TCM pattern as the primary form of indication for CPMs. The aim of this study is to help WM doctors to apply CPMs for the treatment of hypertension accurately; therefore, we used clinical symptoms instead of TCM pattern as the form of indication. In TCM, pattern differentiation is based primarily on symptoms and signs including tongue appearance and pulse feelings. It would be hard for WM doctors to understand the context if the indications were illustrated with TCM patterns, as all these were derived from specialized TCM concepts. Lastly, because of inadequate related studies, we did not have consensus on the indication and possible side effect of YXY tablet and NHJY pill when used as the treatment of hypertension.

In conclusion, we formed a consensus on the application of CPMs in the treatment of hypertension for WM doctors through three rounds of consultations. We believe it would help WM doctors to use CPMs more accurately in clinical hypertension management. We presented the indications in the form of typical symptoms instead of classical pattern differentiation in common TCM consensus or clinical practice guidelines (CPGs) as to assist the WM doctors or other doctors without TCM background to understand and apply CPMs easily. In addition to general therapeutic principles and specific CPM with indications, we also consulted the side effect of different CPMs so as to enhance the safety in clinical practice. This expert consensus could serve as the foundation of CPGs for treatment of hypertension in the future when more evidence on the treatment is established.

### Acknowledgments

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### References


Evidence-Based Complementary and Alternative Medicine


